

Figure 1

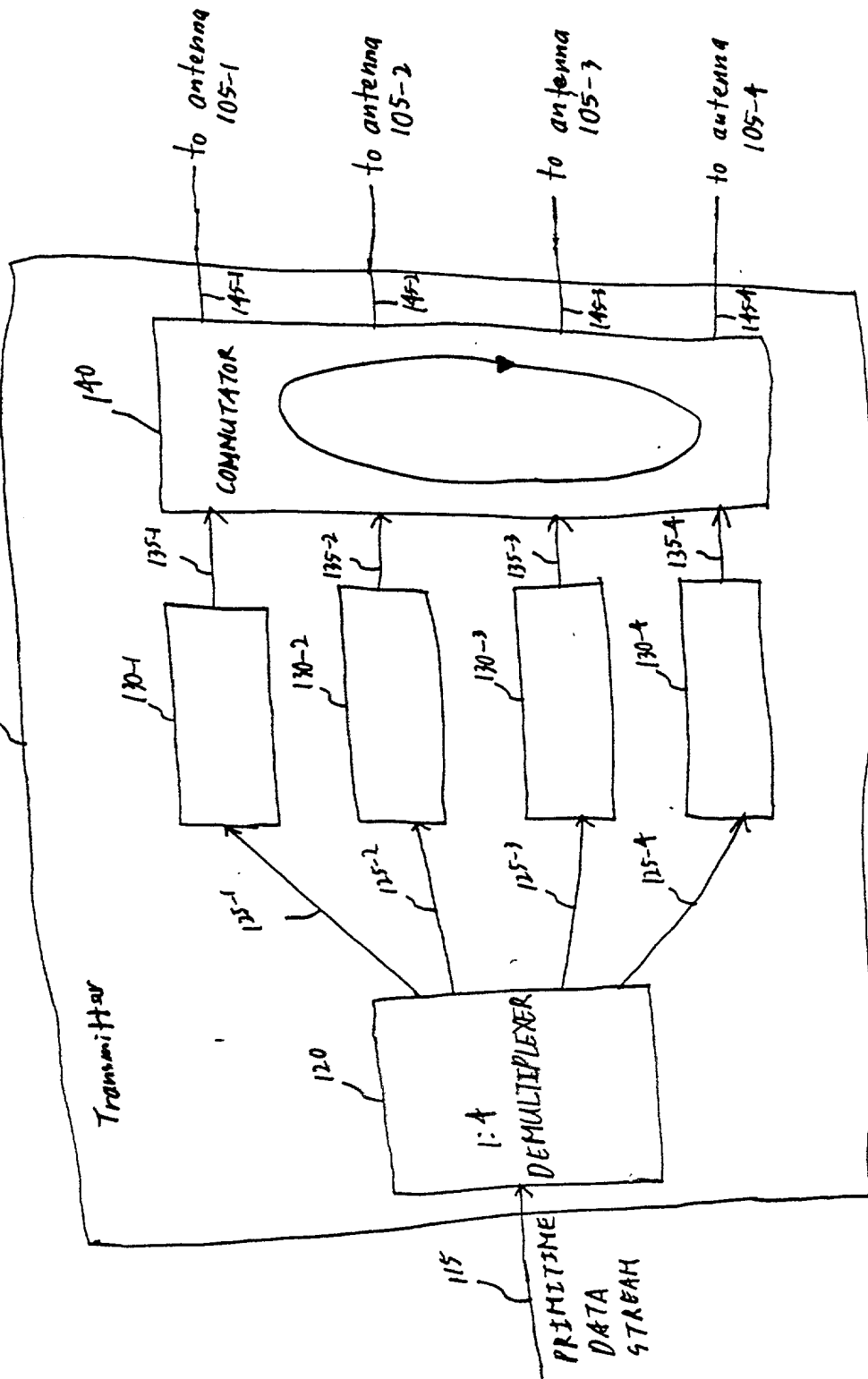


Figure 2

Figure 3

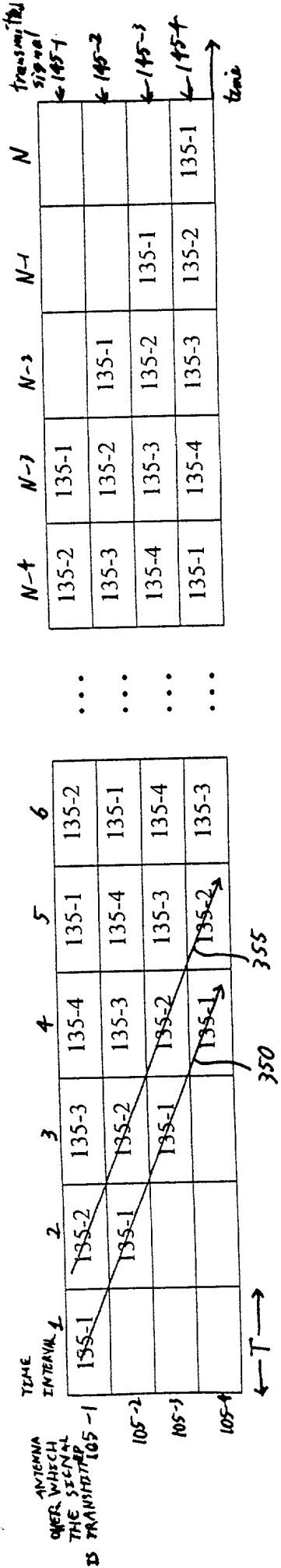


Figure 4a

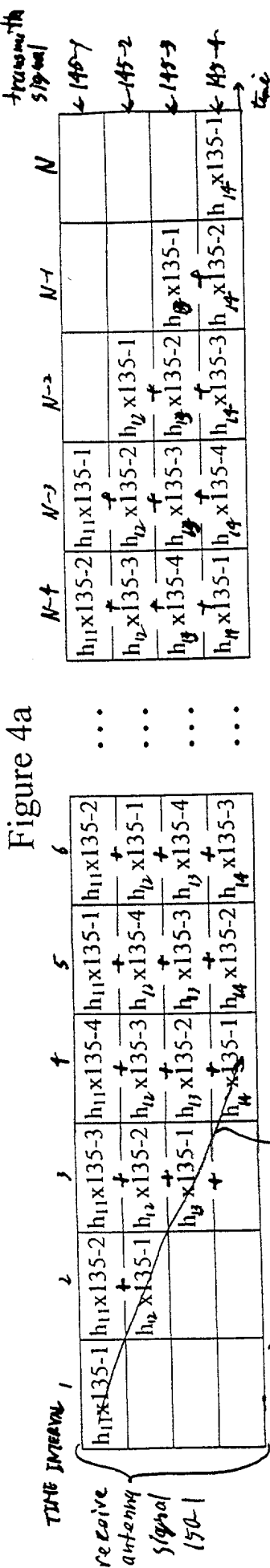


Figure 4b

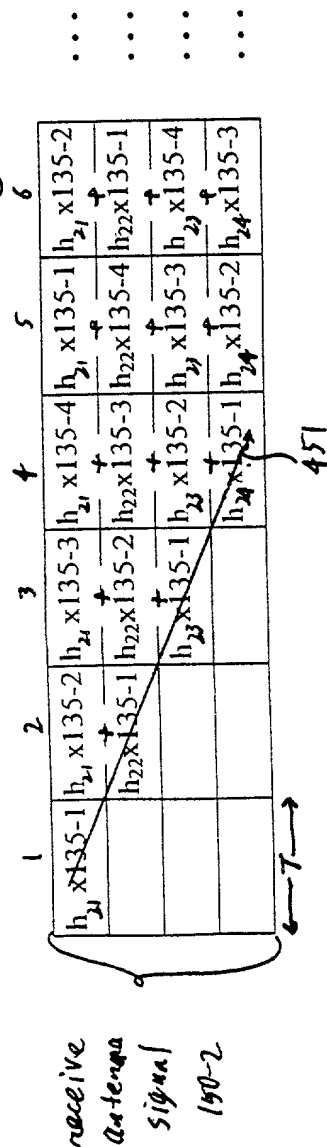


Figure 4c

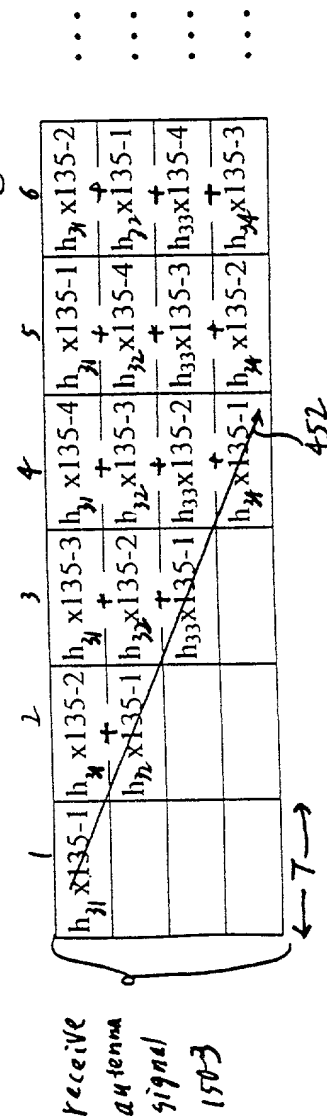


Figure 5

$$\begin{array}{c}
 \text{TIME INTERVAL} \quad 1 \qquad 2 \qquad 3 \qquad 4 \\
 \begin{array}{|c|c|c|c|}
 \hline
 w_{11}x_{h11}x_{135-1} & w_{21}x_{h11}x_{135-2} & w_{31}x_{h11}x_{135-3} & w_{41}x_{h11}x_{135-4} \\
 \hline
 & w_{21}x_{h12}x_{135-1} & w_{31}x_{h12}x_{135-2} & w_{41}x_{h12}x_{135-3} \\
 \hline
 & & w_{31}x_{h13}x_{135-1} & w_{41}x_{h13}x_{135-2} \\
 \hline
 & & & w_{41}x_{h14}x_{135-1} \\
 \hline
 \end{array} \\
 \text{weighted receive antenna signal 510-1} & + & & \\
 \begin{array}{|c|c|c|c|}
 \hline
 w_{12}x_{h21}x_{135-1} & w_{22}x_{h21}x_{135-2} & w_{32}x_{h21}x_{135-3} & w_{42}x_{h21}x_{135-4} \\
 \hline
 & w_{22}x_{h22}x_{135-1} & w_{32}x_{h22}x_{135-2} & w_{42}x_{h22}x_{135-3} \\
 \hline
 & & w_{32}x_{h23}x_{135-1} & w_{42}x_{h23}x_{135-2} \\
 \hline
 & & & w_{42}x_{h24}x_{135-1} \\
 \hline
 \end{array} \\
 \text{weighted receive antenna signal 510-2} & + & & \\
 \begin{array}{|c|c|c|c|}
 \hline
 w_{13}x_{h31}x_{135-1} & w_{23}x_{h31}x_{135-2} & w_{33}x_{h31}x_{135-3} & w_{43}x_{h31}x_{135-4} \\
 \hline
 & w_{23}x_{h32}x_{135-1} & w_{33}x_{h32}x_{135-2} & w_{43}x_{h32}x_{135-3} \\
 \hline
 & & w_{33}x_{h33}x_{135-1} & w_{43}x_{h33}x_{135-2} \\
 \hline
 & & & w_{43}x_{h34}x_{135-1} \\
 \hline
 \end{array} \\
 \text{weighted receive antenna signal 510-3} & = & & \\
 \begin{array}{|c|c|c|c|}
 \hline
 (w_{11}x_{h11} + w_{12}x_{h21} + w_{13}x_{h31})x_{135-1} & (w_{21}x_{h11} + w_{22}x_{h21} + w_{23}x_{h31})x_{135-2} & (w_{31}x_{h11} + w_{32}x_{h21} + w_{33}x_{h31})x_{135-3} & (w_{41}x_{h11} + w_{42}x_{h21} + w_{43}x_{h31})x_{135-4} \\
 \hline
 & (w_{21}x_{h12} + w_{22}x_{h22} + w_{23}x_{h32})x_{135-1} & (w_{31}x_{h12} + w_{32}x_{h22} + w_{33}x_{h32})x_{135-2} & (w_{41}x_{h12} + w_{42}x_{h22} + w_{43}x_{h32})x_{135-3} \\
 \hline
 & & (w_{31}x_{h13} + w_{32}x_{h23} + w_{33}x_{h33})x_{135-1} & (w_{41}x_{h13} + w_{42}x_{h23} + w_{43}x_{h33})x_{135-2} \\
 \hline
 & & & (w_{41}x_{h14} + w_{42}x_{h24} + w_{43}x_{h34})x_{135-1} \\
 \hline
 \end{array} \\
 \text{weighted combined received signal 520} & & & \text{time}
 \end{array}$$

FIG. 6

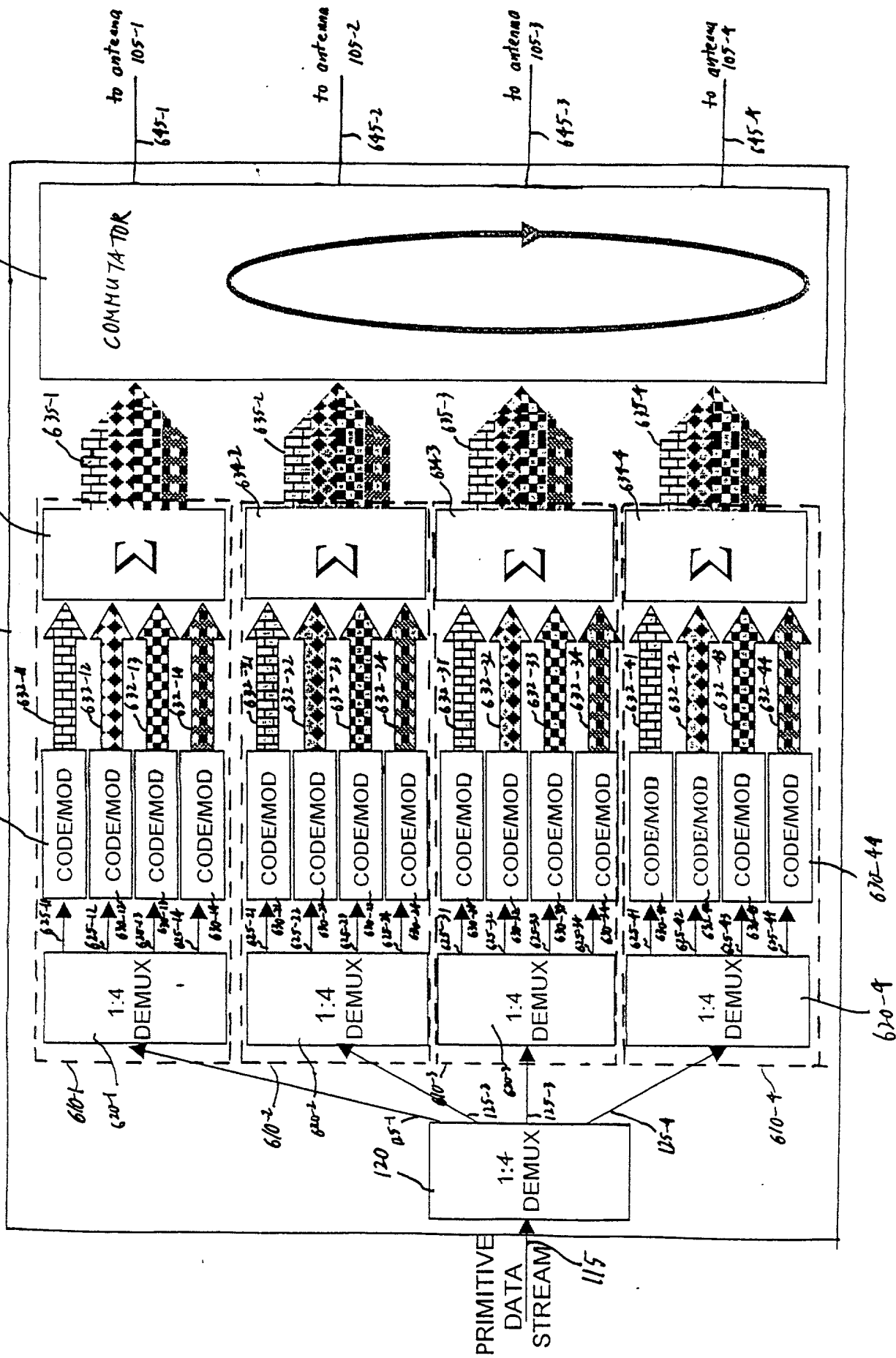


Figure 6

FIG. 9970660
Figure

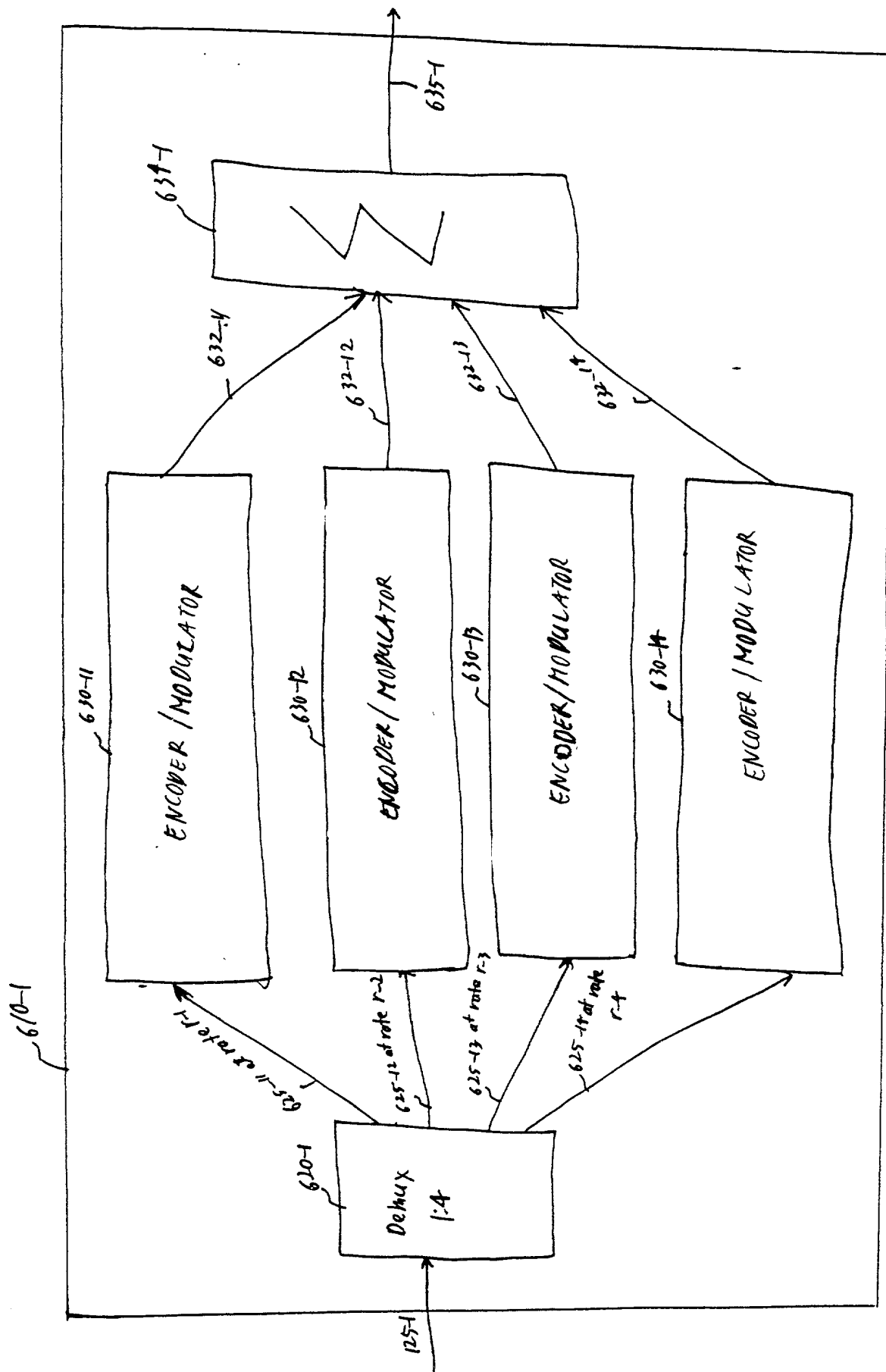
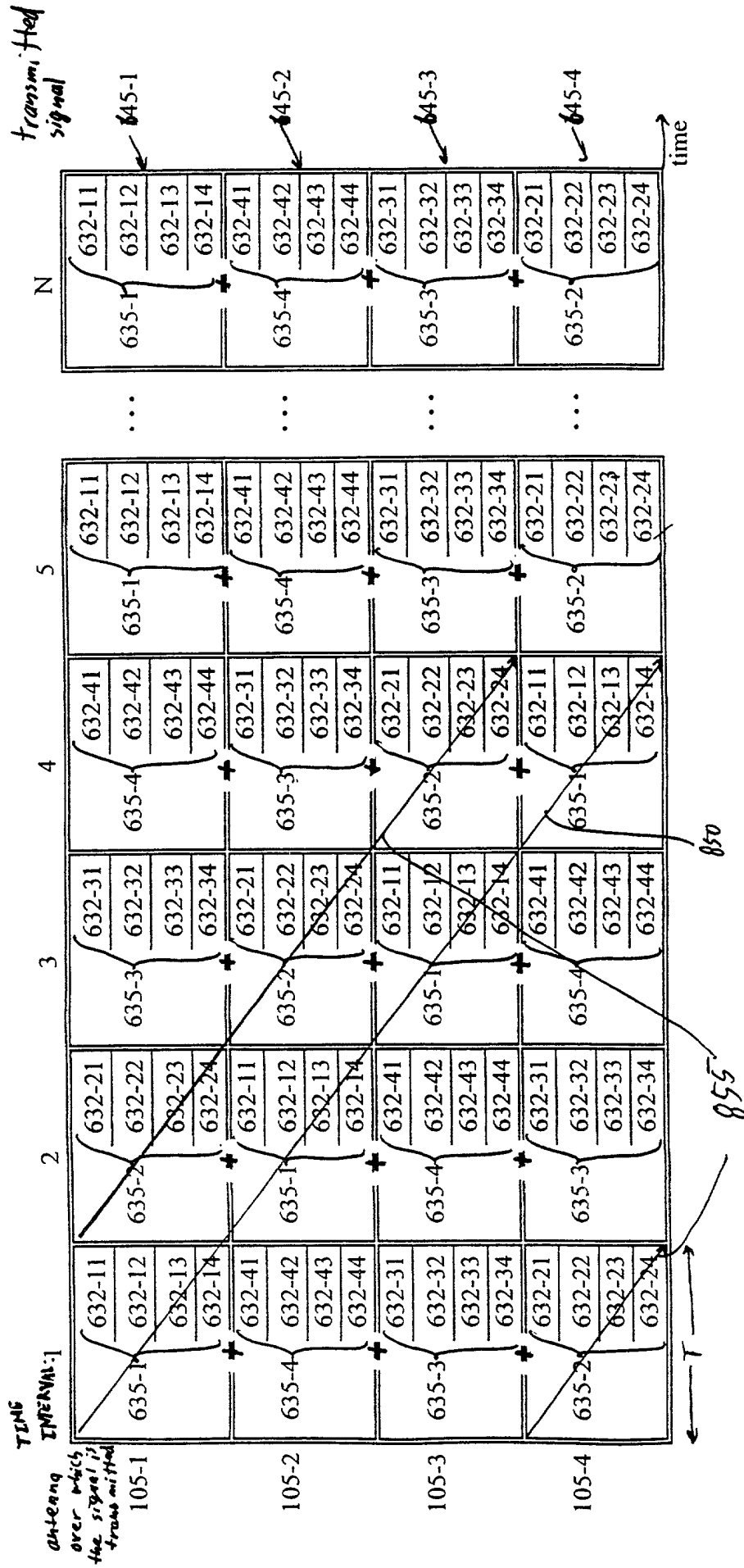
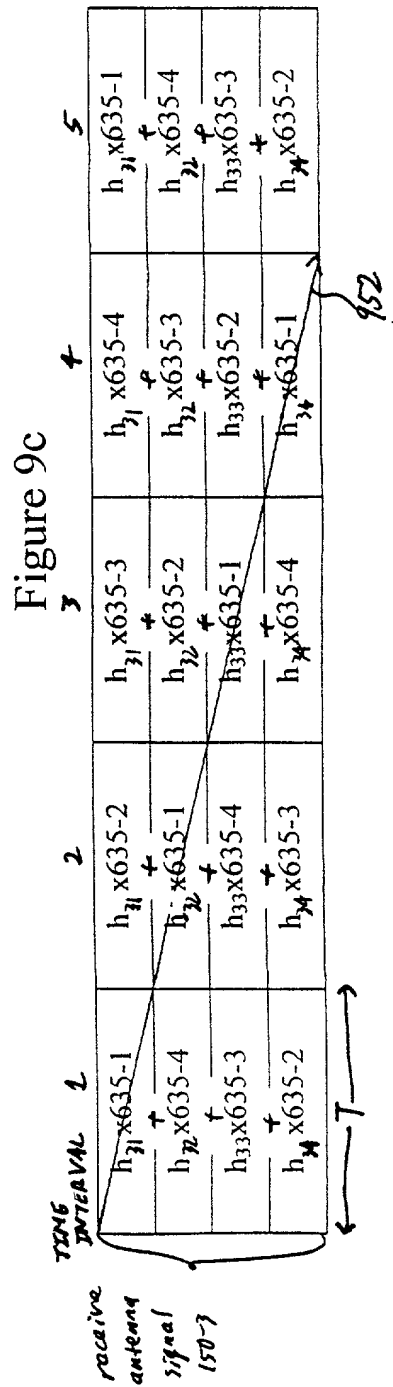
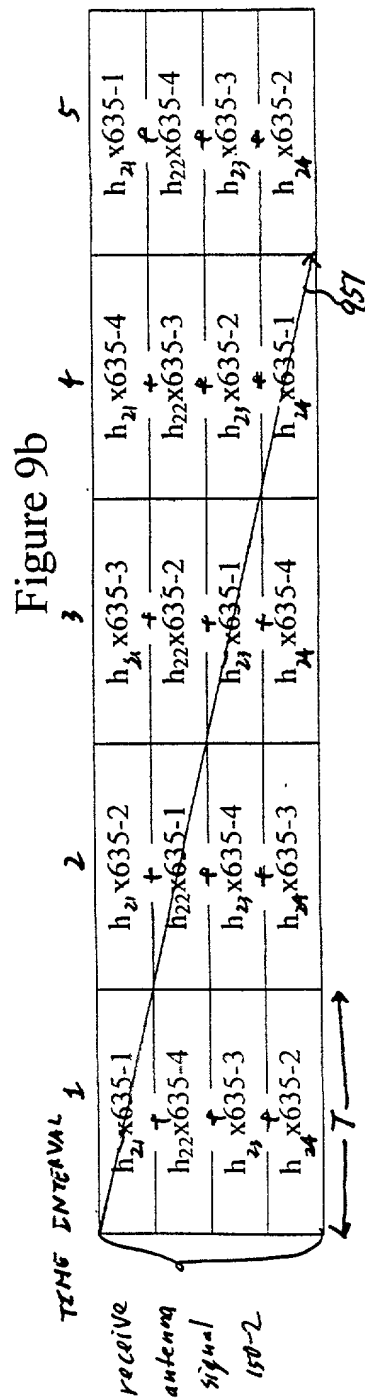
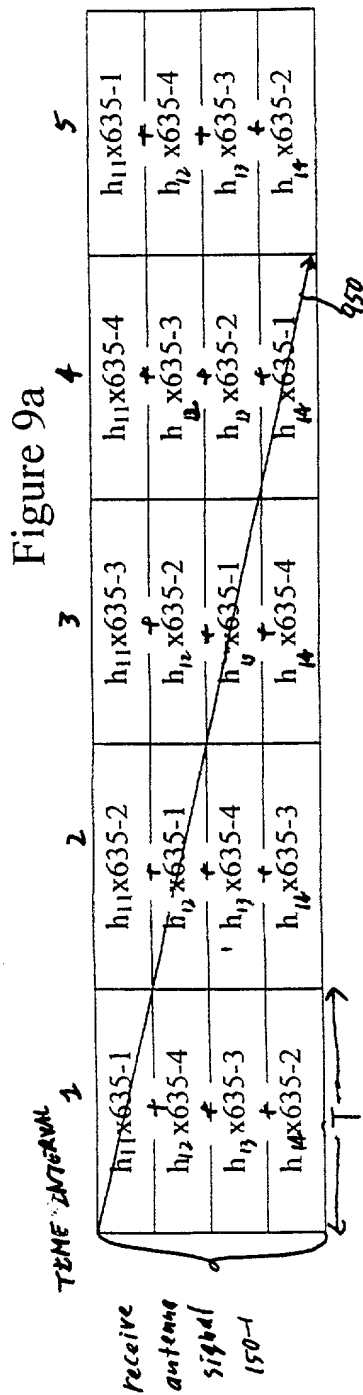


Figure 8





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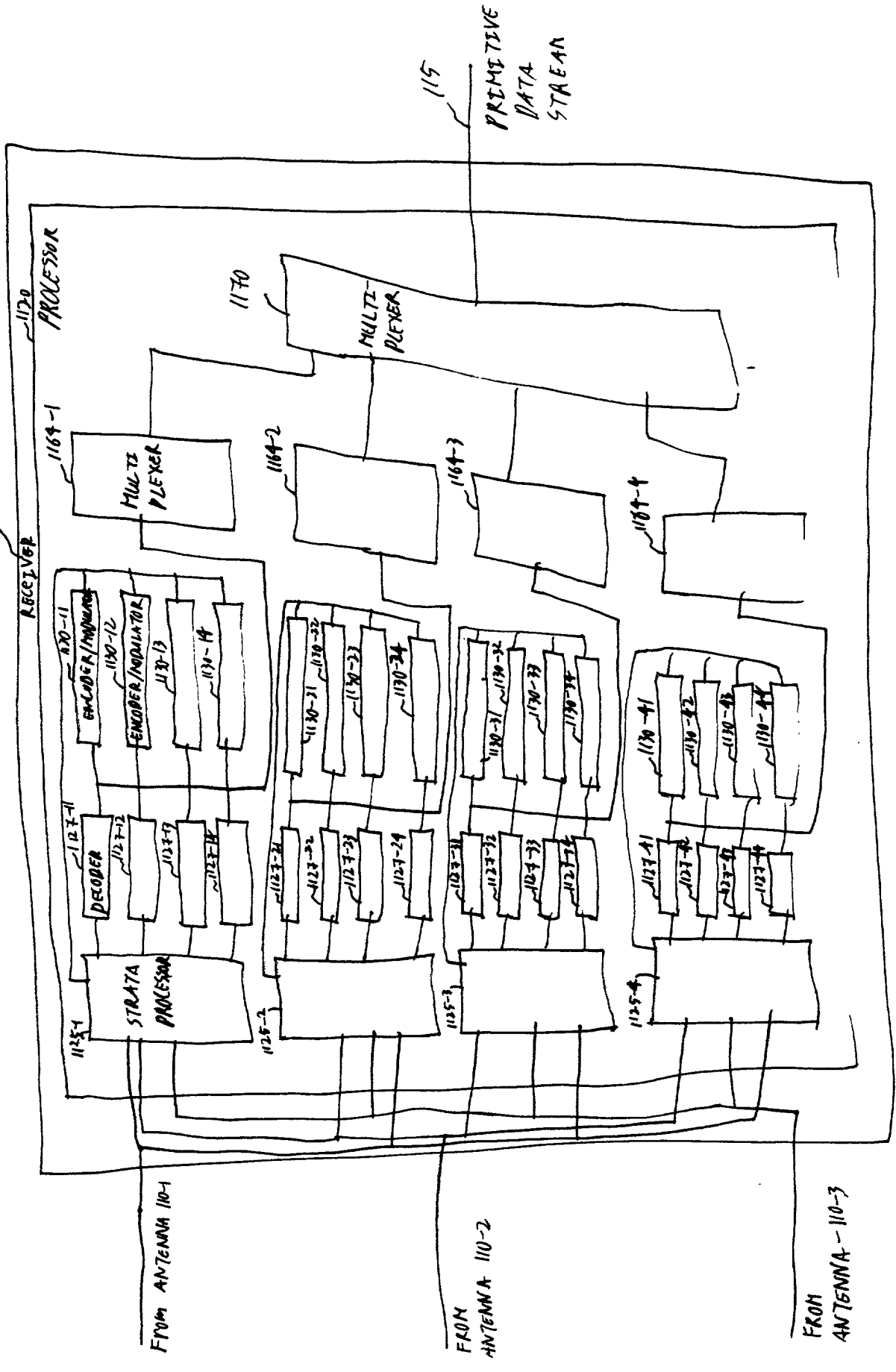


Figure 10

FIGURE 13

